



US007367655B2

(12) United States Patent  
Scardovi et al.(10) Patent No.: US 7,367,655 B2  
(45) Date of Patent: May 6, 2008(54) INTEGRATED PRINthead WITH  
ENCODING CIRCUIT(75) Inventors: Alessandra Scardovi, Ivrea (IT);  
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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 286 days.

(21) Appl. No.: 10/538,749

(22) PCT Filed: Dec. 19, 2003

(86) PCT No.: PCT/IT03/00842

§ 371 (c)(1),  
(2), (4) Date: Jun. 14, 2005

(87) PCT Pub. No.: WO2004/056571

PCT Pub. Date: Jul. 8, 2004

## (65) Prior Publication Data

US 2006/0244771 A1 Nov. 2, 2006

## (30) Foreign Application Priority Data

Dec. 23, 2002 (IT) TO2002A1113

(51) Int. Cl.  
B4J 2/05 (2006.01)

(52) U.S. Cl. ..... 347/57; 347/58

(58) Field of Classification Search ..... 347/5,  
347/9, 14, 19, 56 59  
See application file for complete search history.

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## (57) ABSTRACT

Ink jet printhead comprising a driving and encoding circuit  
(20) having a grid-like structure, including a plurality of  
inputs (24), a plurality of selecting elements (12), a plurality  
of actuating elements (11) and at least one identifying  
element (21) of said printhead. Each identifying element  
(21) is associated with a corresponding selecting element  
(12) and corresponds to nodes arranged along a row or  
column of said grid-like structure, and is scanned, together  
with said actuating elements (11), during a preliminary  
checking step.

9 Claims, 5 Drawing Sheets

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